

Serial No. 10/743,778

Docket No. K-0597

Amendment dated January 31, 2007

Reply to Office Action of September 1, 2006

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

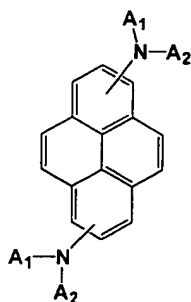
1. (Currently Amended) ~~[[An]]~~ A blue organic electroluminescent device, comprising:

a substrate;

a first and second electrodes formed on the substrate;

an emitting layer formed between the first electrode and the second electrode, the emitting layer having a plurality of materials and ~~being comprising~~ a blue emitting material using a chemical formula 1 as a dopant

[Chemical formula]



~~Wherein, at least one of~~ wherein A1 and A2 ~~[[is]]~~ are selected from a substituted or non-substituted aromatic group, a heterocyclic group, an aliphatic group and hydrogen.

2. (Currently Amended) The blue organic electroluminescent device of claim 1, wherein wt. % of the material ~~[[in]]of~~ the chemical formula 1 is 0.1 - 49.9wt.% of a total weight of the emitting layer.

3. (Currently Amended) The blue organic electroluminescent device of claim 1, wherein materials forming the emitting layer together with the material of the chemical formula 1 is structured as a chemical formula 2

[Chemical formula 2]

B1 - X - B2

Wherein, the X is selected from a group consisting of naphthalene, anthracene, phenanthrene, pyrene, perylene, and quinoline and ~~at least one of the B1 and B2~~ ~~[[is]]~~ are selected from a group consisting of aryl, alkylaryl, alkoxyaryl, arylaminoaryl and alkylaminoaryl.

4. (Currently Amended) The blue organic electroluminescent device of claim 3, wherein at least one of the B1 and B2 is selected from phenyl, biphenyl, pyridyl, naphthyl, ~~tritylphenyl~~tritolylphenyl, biphenylenyl, anthryl, phenanthryl, pyrenyl, perylenyl, quinolyl, isoquinolyl, fluorenyl, terphenyl, tolyl, xylyl, methylnaphthyl, and hydrogen.

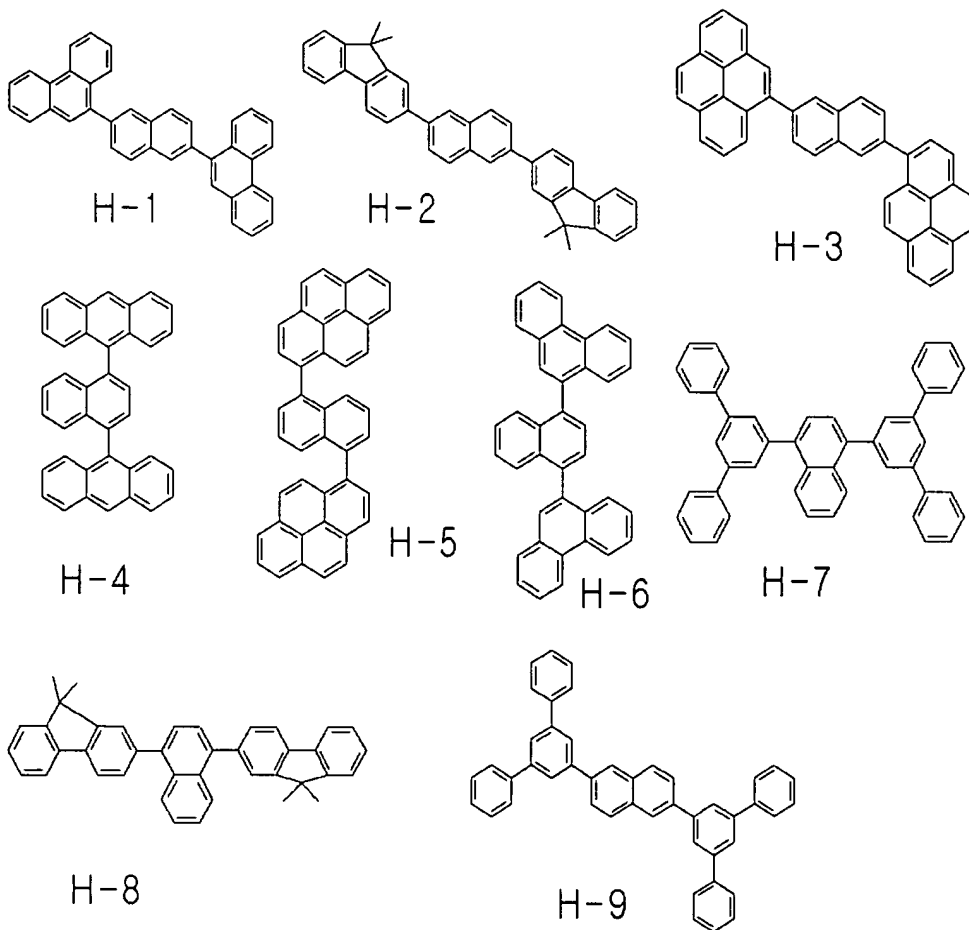
5. (Currently Amended) The blue organic electroluminescent device of claim 1, wherein the material forming the emitting layer together with the material of the chemical formula 1 is one of following formulas

Serial No. 10/743,778

Docket No. K-0597

Amendment dated January 31, 2007

Reply to Office Action of September 1, 2006

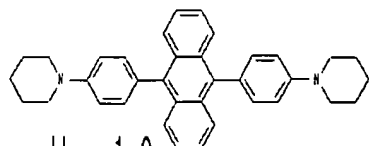


Serial No. 10/743,778

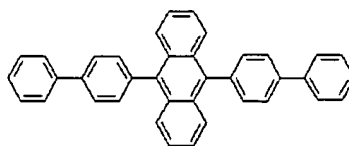
Docket No. K-0597

Amendment dated January 31, 2007

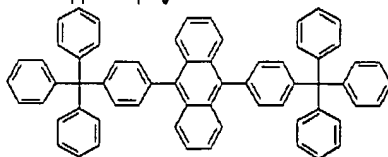
Reply to Office Action of September 1, 2006



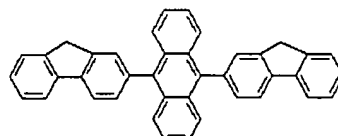
H - 10



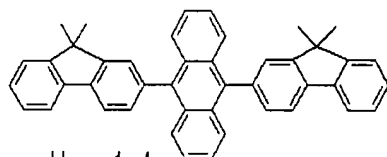
H - 11



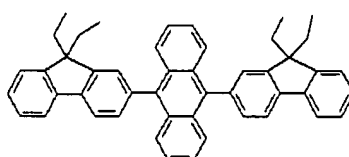
H - 12



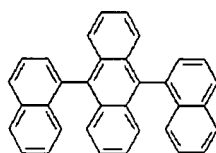
H - 13



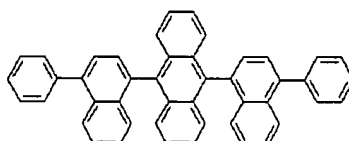
H - 14



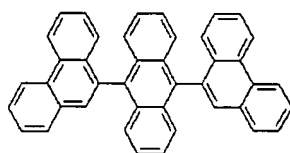
H - 15



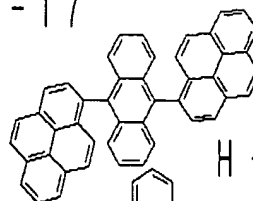
H - 16



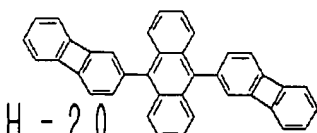
H - 17



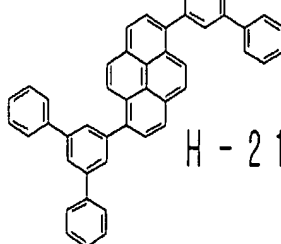
H - 18



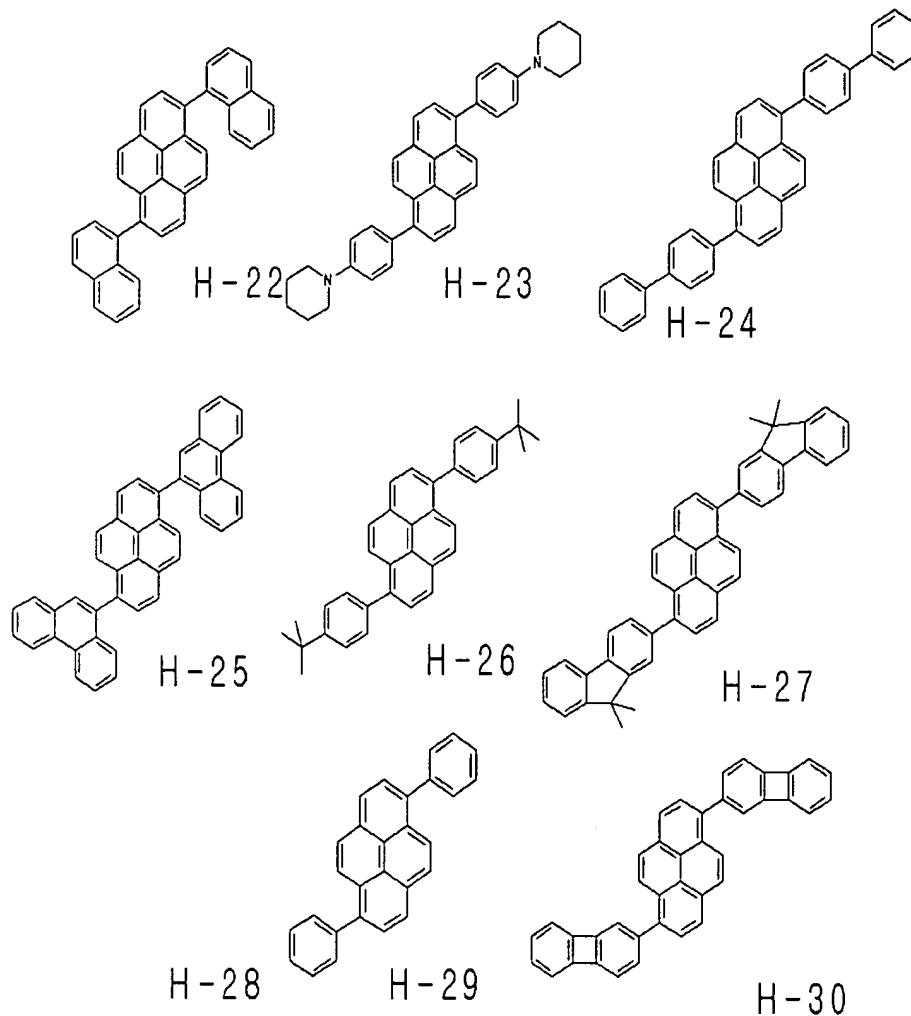
H - 19



H - 20



H - 21



6. (Currently Amended) The blue organic electroluminescent device of claim 1, wherein at least one of the A1 and A2 is selected from a substituted or non-substituted phenyl, a substituted or non-substituted biphenyl, a substituted or non-substituted pyridyl, a substituted or non-substituted naphthyl, a substituted or non-substituted quinolyl, a substituted or non-

Serial No. 10/743,778

Docket No. K-0597

Amendment dated January 31, 2007

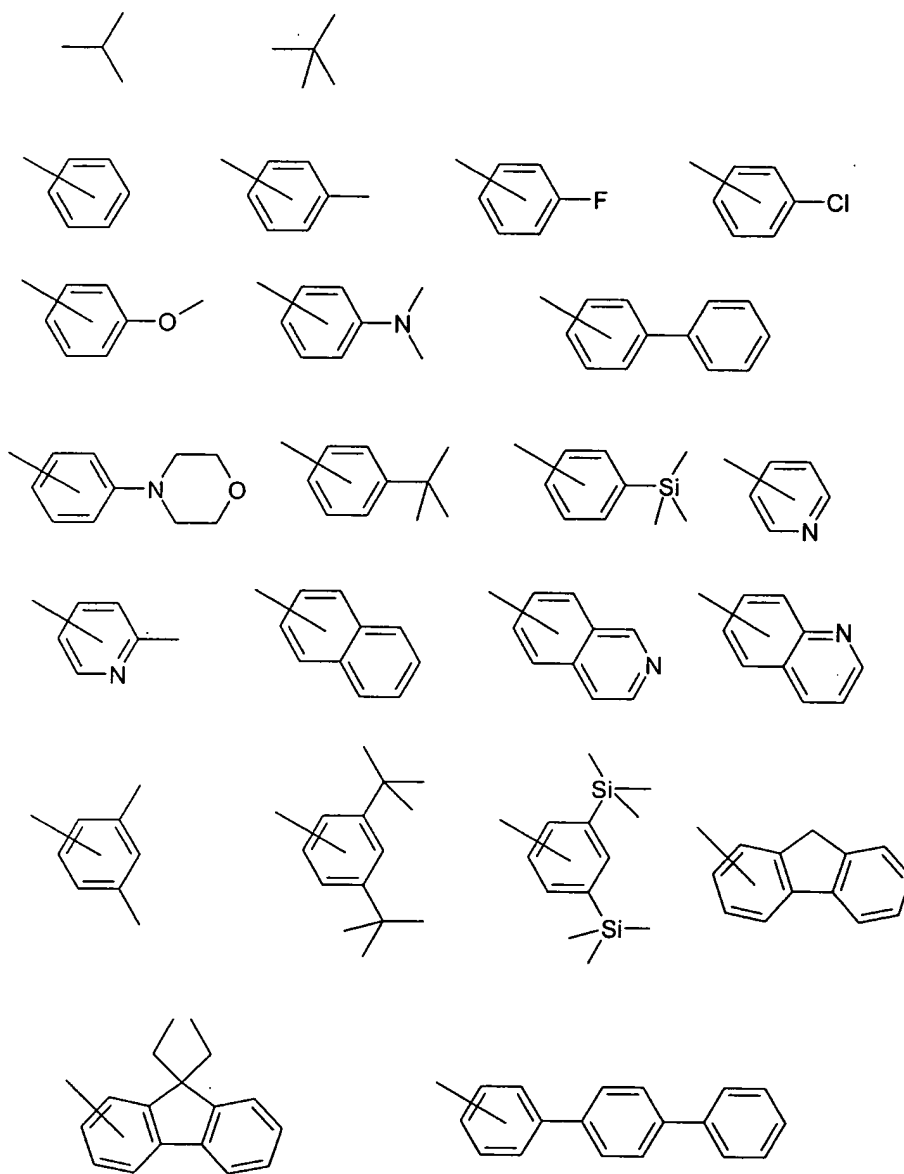
Reply to Office Action of September 1, 2006

substituted isoquinolyl, a substituted or non-substituted fluorenyl, a substituted or non-substituted terphenyl, methyl, ethyl, propyl, i-propyl, and ~~t-butyl~~ t-butyl.

7. (Currently Amended) The blue organic electroluminescent device of claim 1, wherein a substituent of each substituted A1 and A2 is at least one and selected from alkyl, alkoxy, alkylamino, alkylsilyl, halogen, aryl, aryloxy, arylamino, arylsilyl and hydrogen.

8. (Currently Amended) The blue organic electroluminescent device of claim 7, wherein the substituent is one selected from methyl, ethyl, propyl, i-propyl, t-butyl, cyclohexyl, methoxy, ethoxy, propoxy, butoxy, dimethylamino, trimethylsilyl, fluorine, ~~chlorine~~ chlorine, phenoxy, tolyloxy, dimethylamino, diethylamino, diphenylamino, and triphenylsilyl.

9. (Currently Amended) The blue organic electroluminescent device of claim 1, wherein at least one of the A1 and A2 in one of following chemical formulas



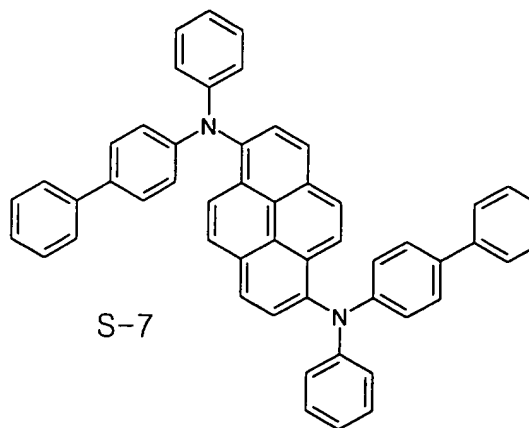
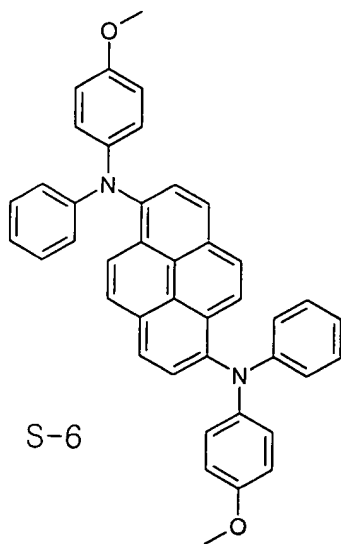
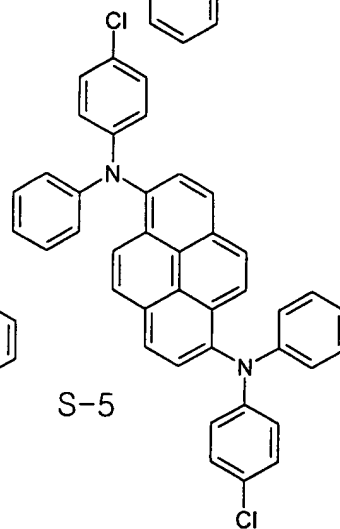
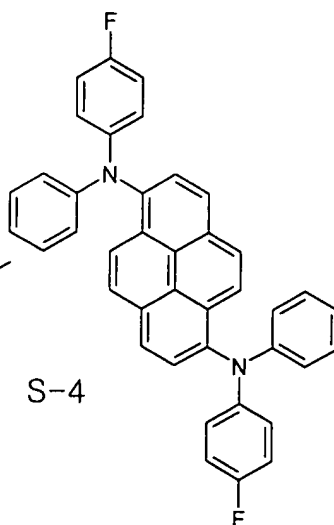
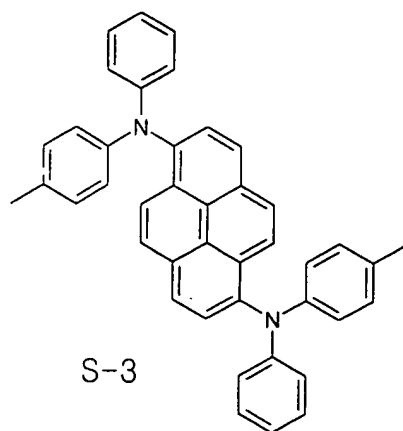
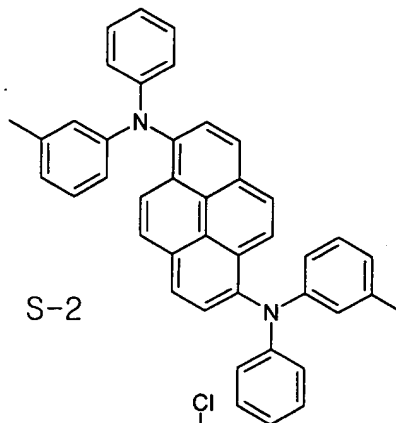
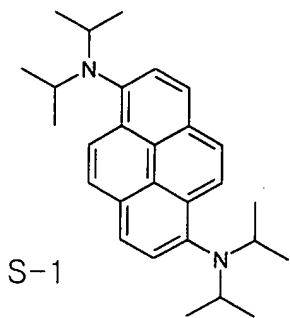
10. (Currently Amended) The blue organic electroluminescent device of claim 1, wherein the blue emitting material is at least one of following chemical formulas

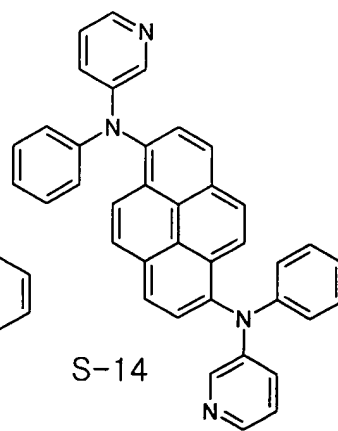
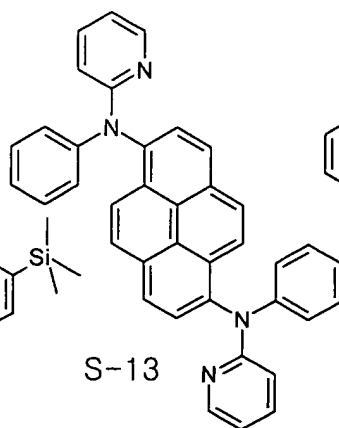
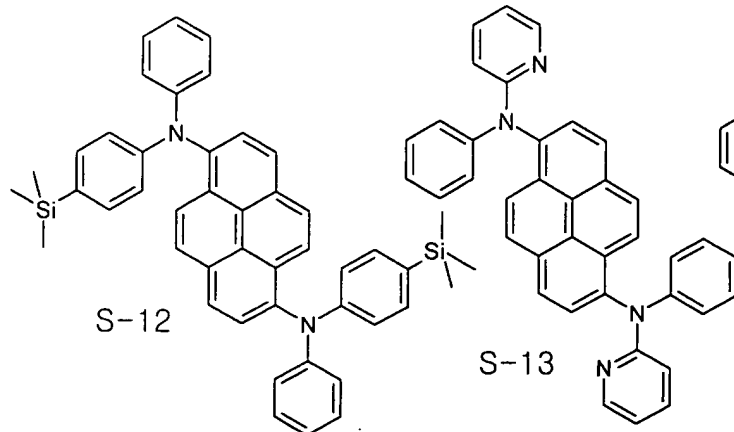
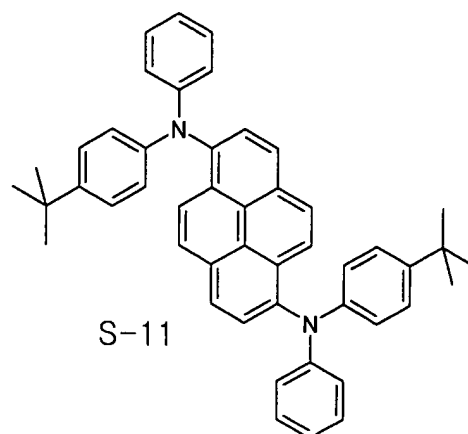
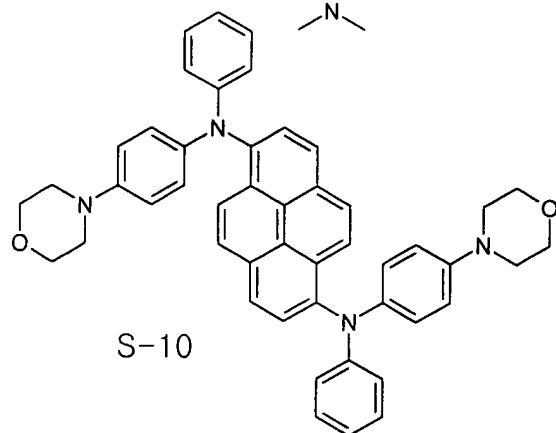
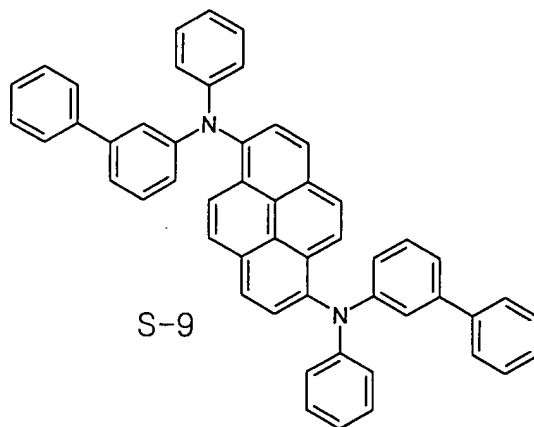
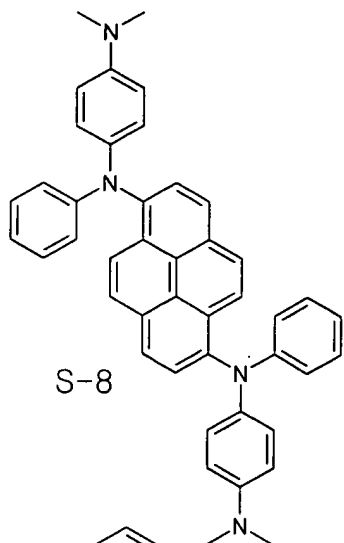
Serial No. 10/743,778

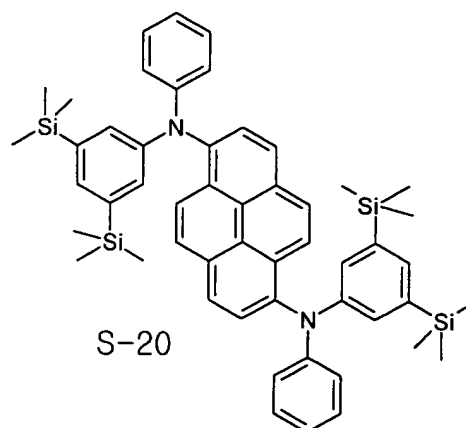
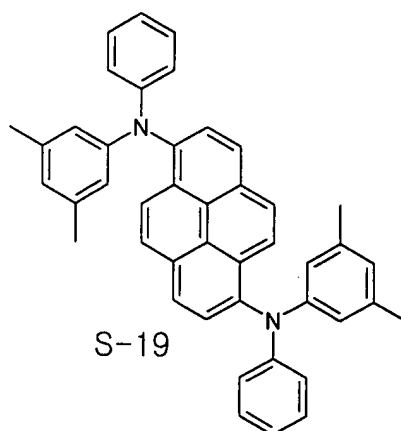
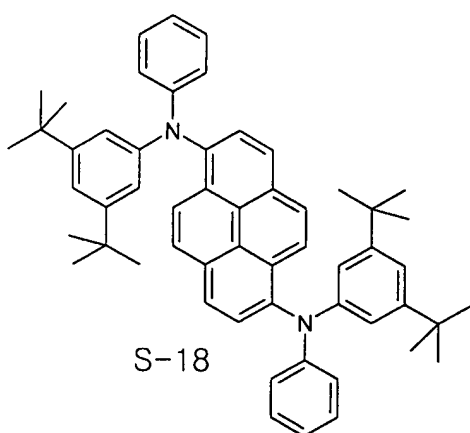
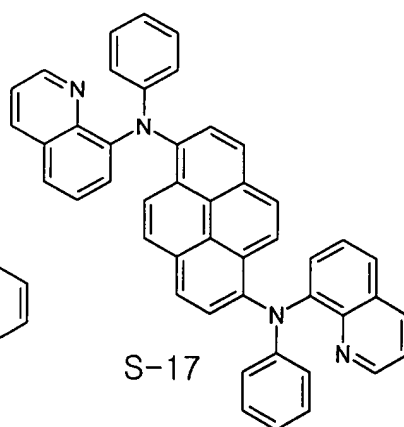
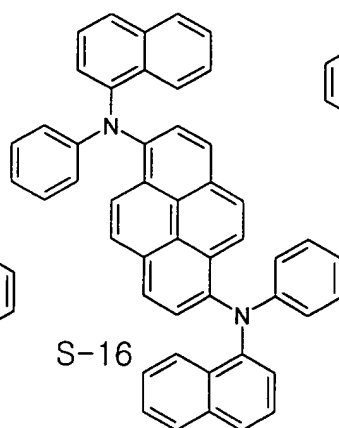
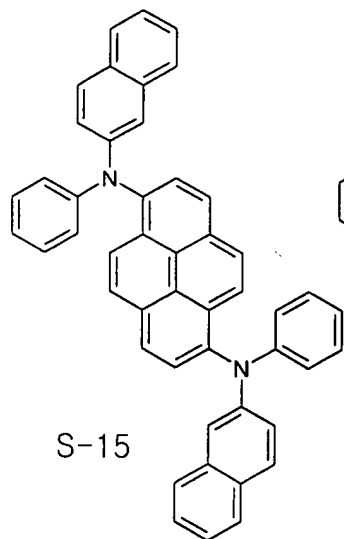
Docket No. K-0597

Amendment dated January 31, 2007

Reply to Office Action of September 1, 2006





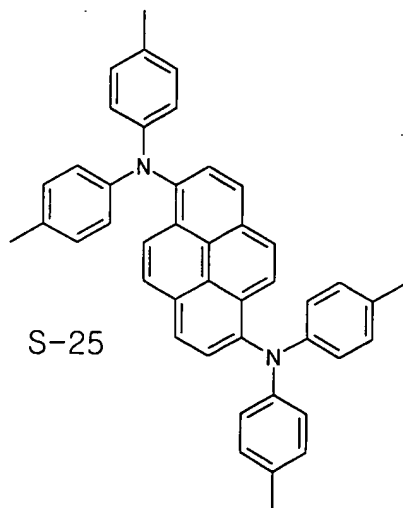
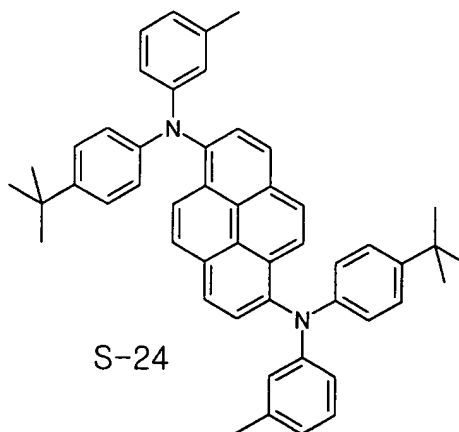
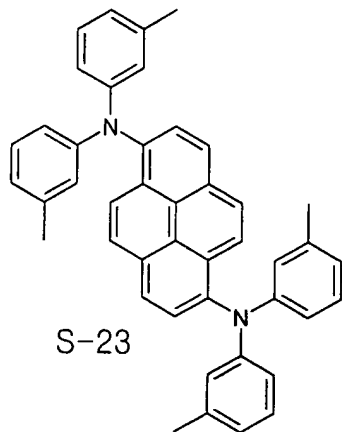
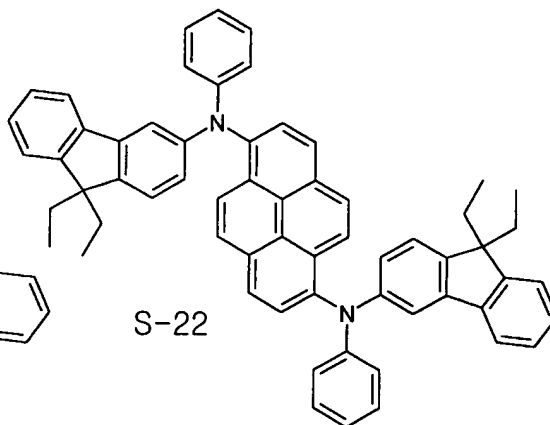
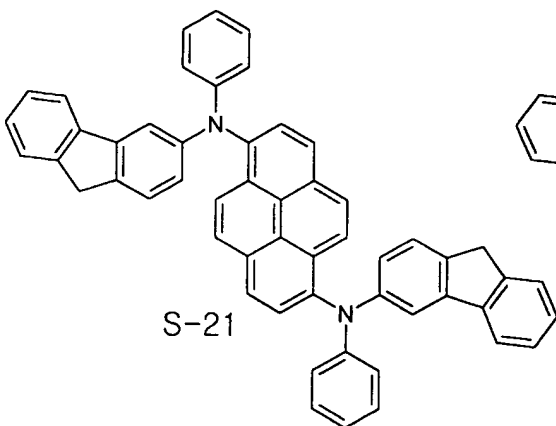


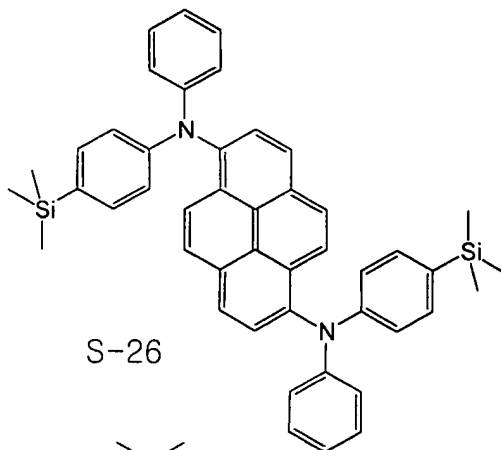
Serial No. 10/743,778

Docket No. K-0597

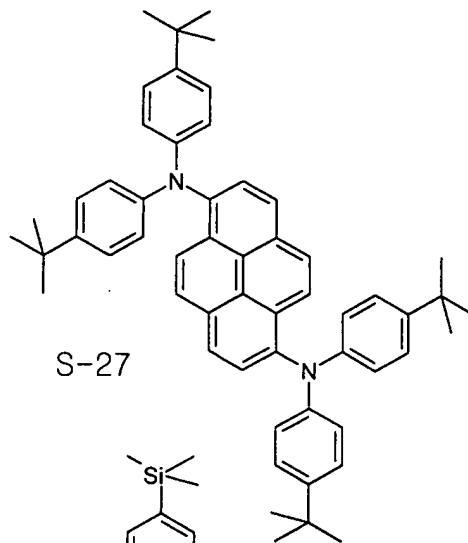
Amendment dated January 31, 2007

Reply to Office Action of September 1, 2006

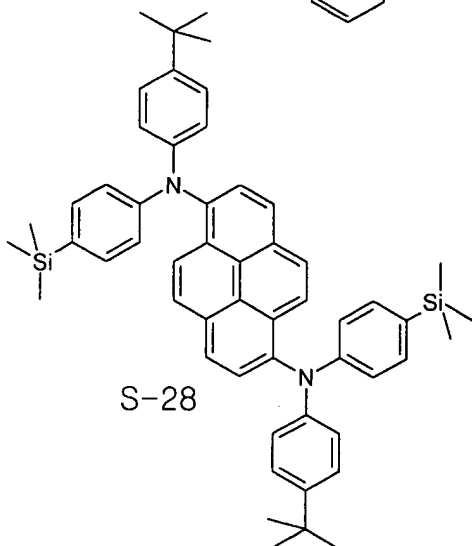




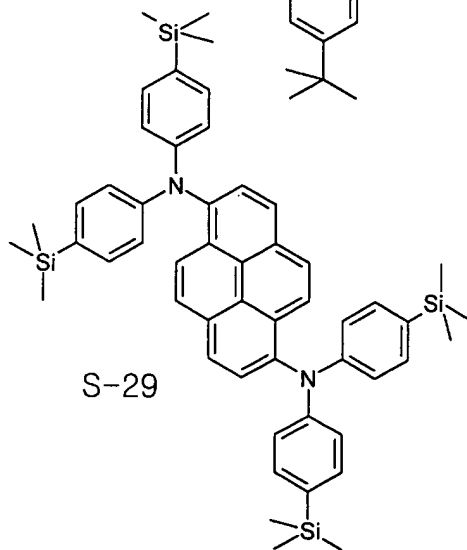
S-26



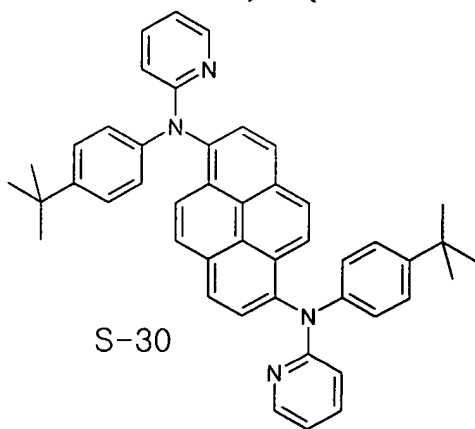
S-27



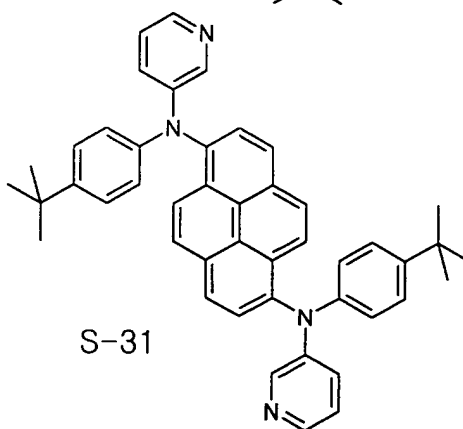
S-28



S-29



S-30



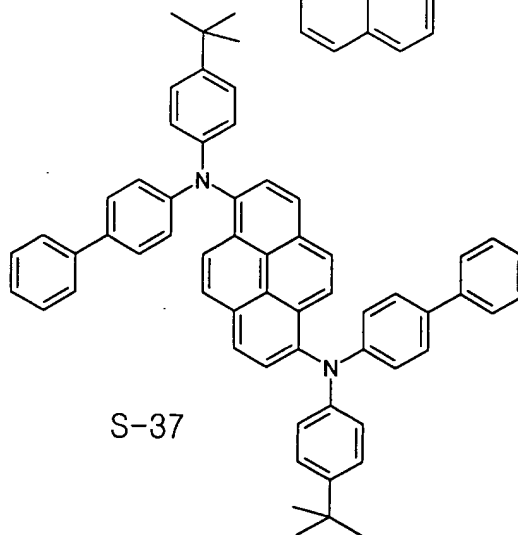
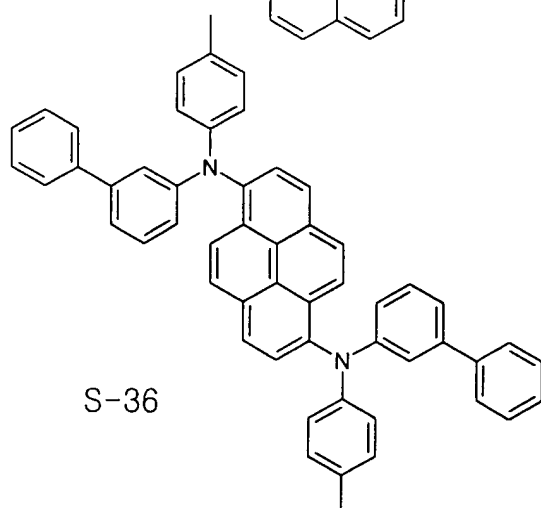
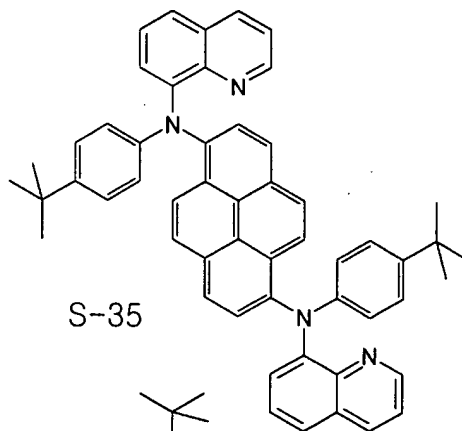
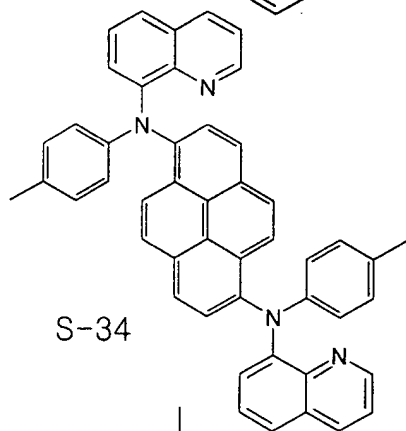
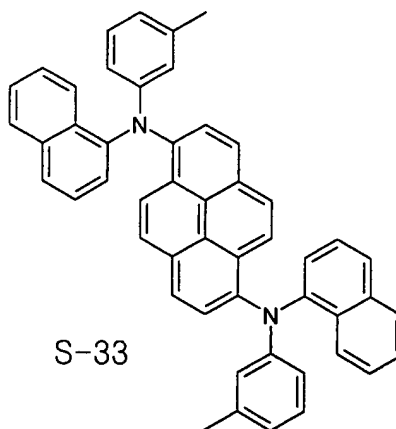
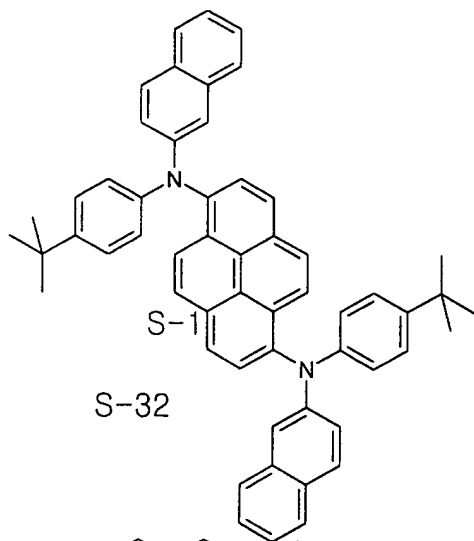
S-31

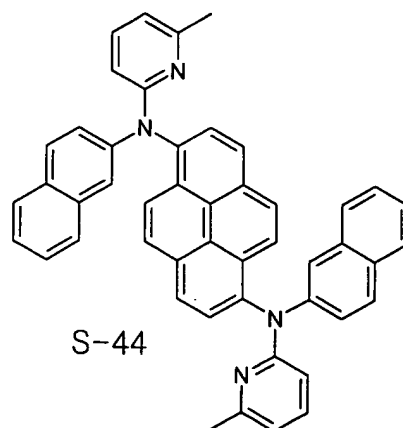
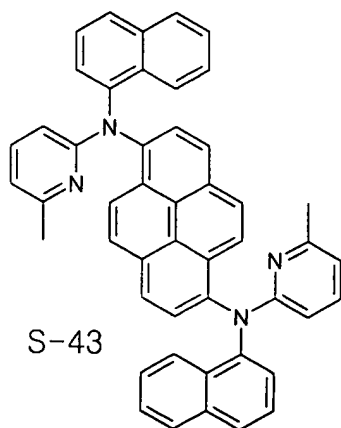
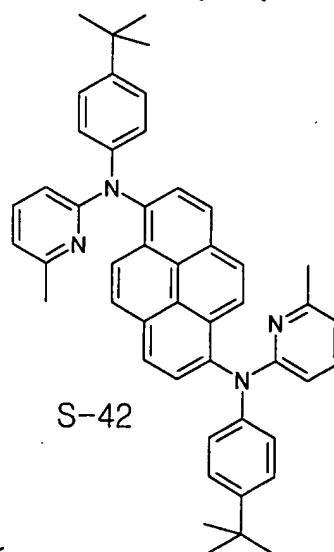
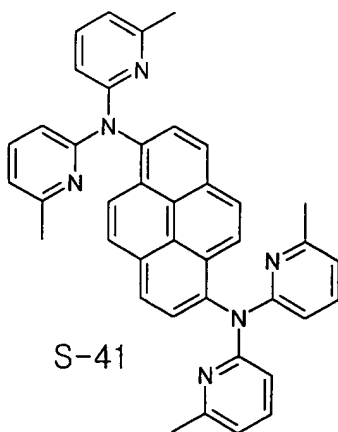
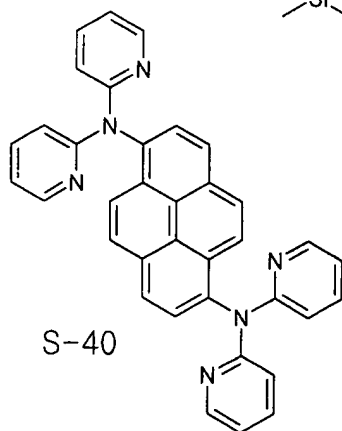
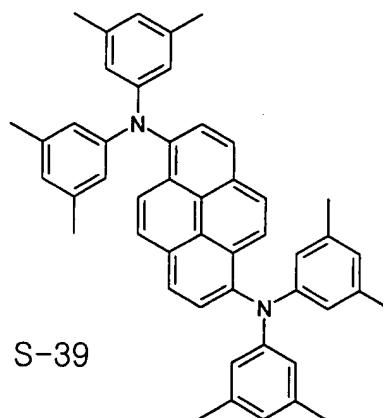
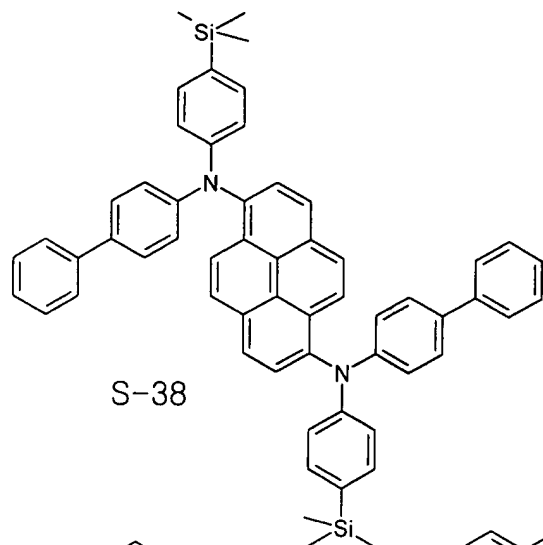
Serial No. 10/743,778

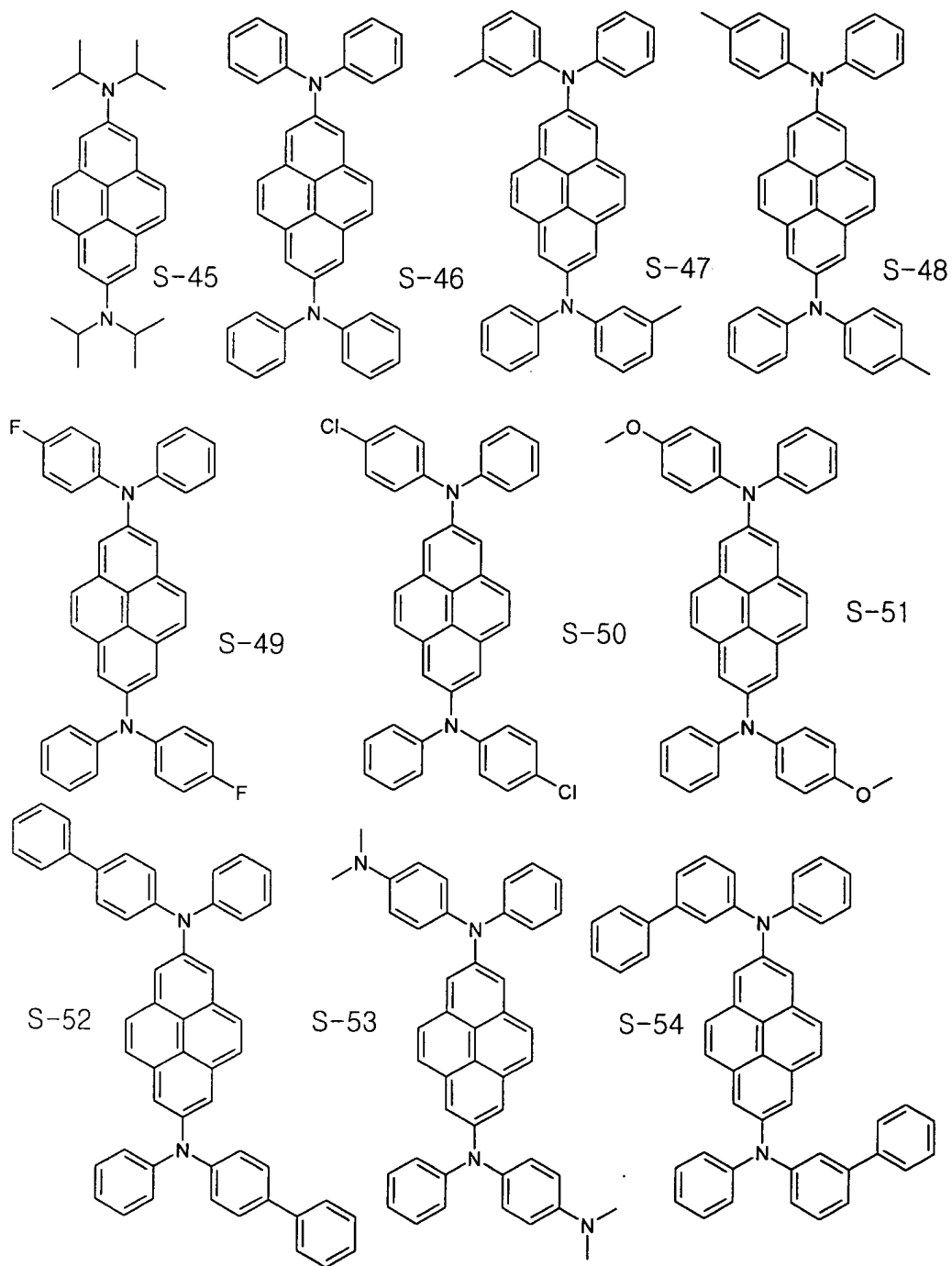
Docket No. K-0597

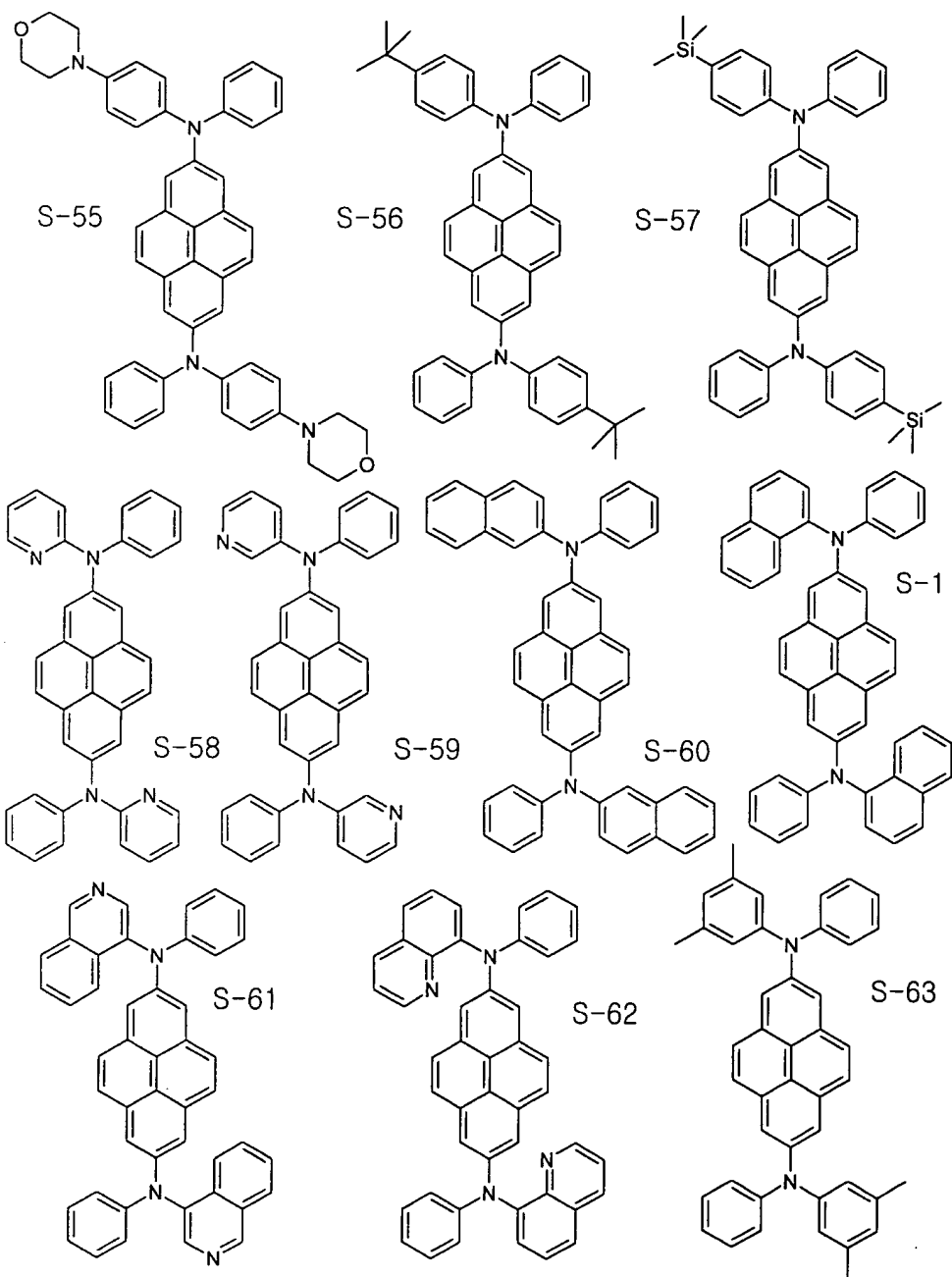
Amendment dated January 31, 2007

Reply to Office Action of September 1, 2006







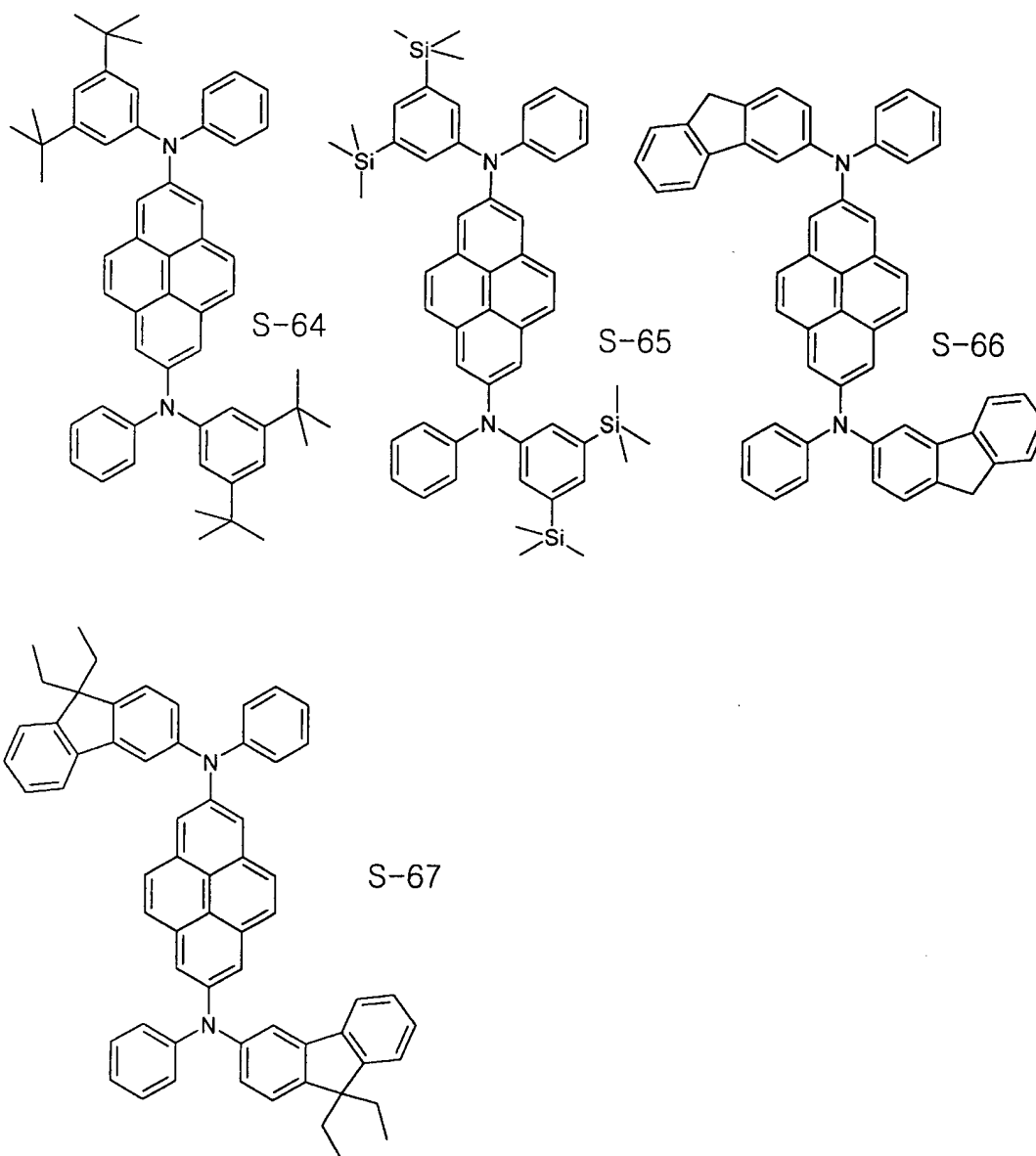


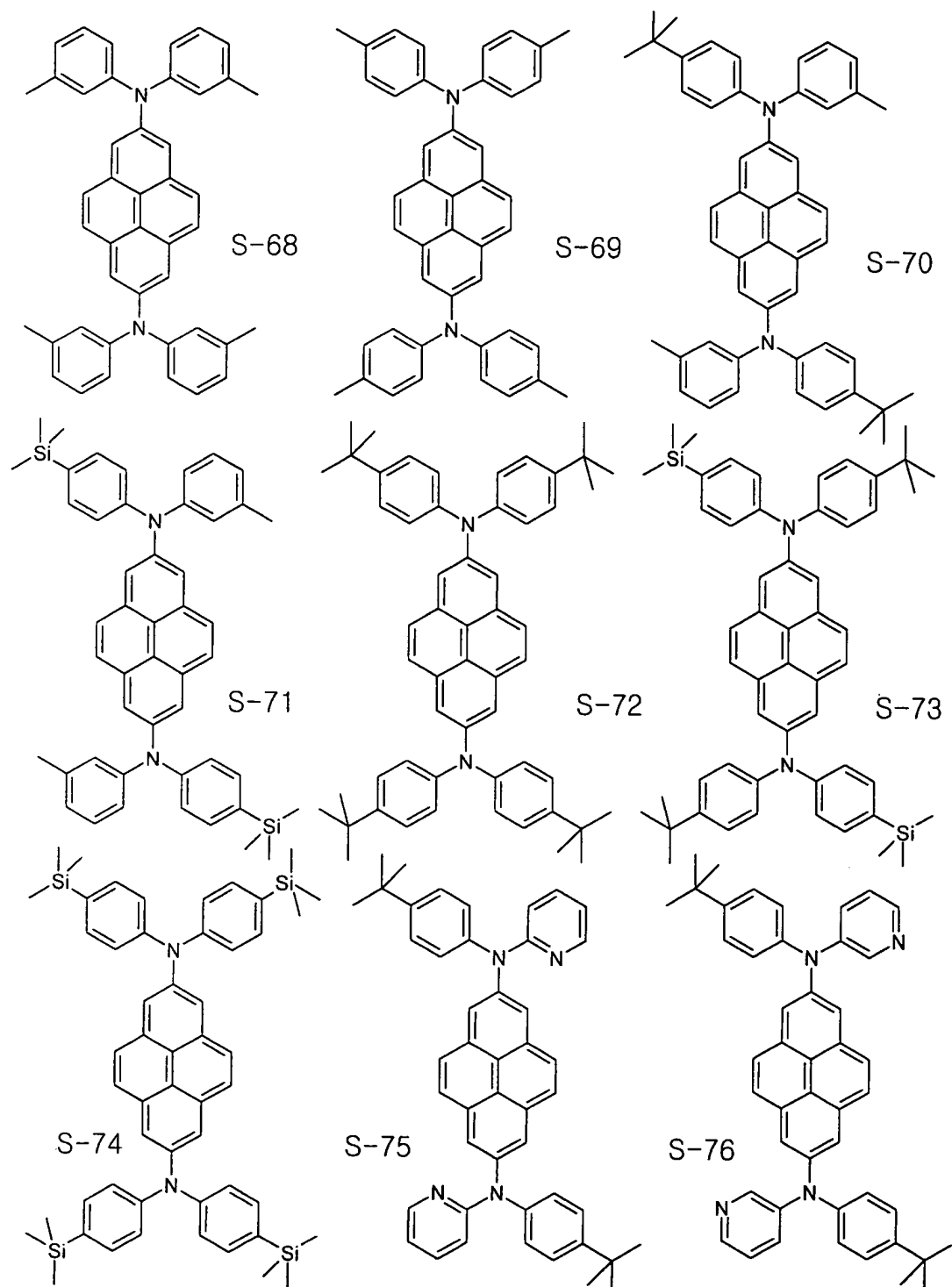
Serial No. 10/743,778

Docket No. K-0597

Amendment dated January 31, 2007

Reply to Office Action of September 1, 2006





Serial No. 10/743,778

Docket No. K-0597

Amendment dated January 31, 2007

Reply to Office Action of September 1, 2006

